ZF41K5E-TFD
HFC, R-507, 60 Hz, 3 - Phase, 460 V , Also Available with Variable Frequency Drives
**Low Temp, Liquid Injected**
Production Status: Available for sale to all U.S. customers. Please check with your local Copeland Representative for international availability.

## Performance

| | | |
|---|---|---|
| **Evaporator Temp. (°F)** | -25.00 | -40 |
| **Condensing Temp. (°F)** | 105.00 | 105 |
| **Return Gas Temp. (°F)** | 65.00 | 65 |
| **Liquid Temp. (°F)** | 105.00 | 105 |
| **Capacity (BTU/hr)** | 41400 | 28100 |
| **Power (W):** | 8150 | 7400 |
| **Current (Amps):** | 15.4 | 14.4 |
| **EER(BTU/Wh):** | 5.1 | 3.8 |
| **Mass Flow (lbs/hr):** | 765 | 515 |
| **Sound Data @ -10 / 110** | | |
| **Sound Power (dBA):** | 85 Avg | 90 Max |
| **Vibration mils(peak-peak):** | 3.0 Avg | 4.5 Max |
| **Record Date:** | 2023-05-19 | |

## Mechanical

| | |
|---|---|
| **Displacement (in^3/Rev):** | 12.39 |
| **Displacement (ft^3/Hr):** | |
| **Overall Length (in):** | 11.00 |
| **Overall Width (in):** | 10.60 |
| **Overall Height (in):** | 21.00 |
| **Mounting Length (in):** | 7.50 |
| **Mounting Width (in):** | 7.50 |
| **Mounting Height (in):** | 22.30 |
| **Suction Size (in),Type:** | 1 3 / 4 |
| **Discharge Size (in),Type:** | 1 1 / 4 |
| **Initial Oil Charge (oz):** | 114 |
| **Oil Recharge (oz):** | 110 |
| **Oil Type:** | POE |
| **Net Weight (lbs):** | 143.0 |
| **Internal Free Volume (in^3):** | |

*Overall compressor height on Copeland Brand Product's specified mounting grommets.

## Electrical

| | |
|---|---|
| **LRA High* (Amps):** | 125 |
| **LRA Low*(Amps):** | |
| **LRA Half Winding (Amps):** | |
| **MCC (Amps):** | 27 |
| **Max Operating Current (Amps):** | 29.00 |
| **RLA, MCC/1.4(use for contactor selection)(Amps):** | 19.3 |
| **RLA, MCC/1.56(use for breaker & wire size selection)(Amps):** | 17.3 |
| **RPM:** | 3500 |
| **Box IP :** | 54 |
| **UL File No:** | SA2337-20120117 |
| **UL File Date:** | 2012-01-17 |

## Capacitors

| Type | Part No | Low MFD | High MFD | Volts | User Description |
|---|---|---|---|---|---|
| No data available in table | | | | | |

| European Pressure Equipment Directive (PED): | |
|---|---|
| **Fluid Group**:** | FG 2 |
| **PS Low / High Side (BAR):** | 22.6 / 32.0 |
| **TS Min (°C):** | -35 / -35 |
| **TS Max (°C):** | 50 / 150 |
| **Volume (L) :** | 12.6 / 1.5 |

*Low and High refer to the low and high nominal voltage ranges for which the motor is approved.

**Alternate Applications**

| Refrigerant | Voltage | Phase | Frequency | Application |
|---|---|---|---|---|
| R-404A HFC | 460 | 3 | 60 | Low Temp, Liquid Injected |
| R-404A HFC | 380/420 | 3 | 50 | Low Temp, Liquid Injected |
| R-404A HFC | 460 | 3 | 60 | Low Temp, Economized |
| R-404A HFC | 380/420 | 3 | 50 | Low Temp, Economized |
| R-404A HFC | 380/420 | 3 | 50 | Medium Temp, Liquid Injected |
| R-404A HFC | 460 | 3 | 60 | Medium Temp, Liquid Injected |
| R-404A HFC | 460 | 3 | 60 | Medium Temp, Economized |
| R-407A HFC | 380/420 | 3 | 50 | Low Temp, Liquid Injected |
| R-407A HFC | 460 | 3 | 60 | Low Temp, Liquid Injected |
| R-407A HFC | 460 | 3 | 60 | Low Temp, Economized |